

# TANISHTHA CHANDRA

Portfolio: <https://herstorytanishtha.vercel.app/>

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## ABOUT ME

I'm a high school senior who is passionate about democratizing financial access for the underserved. I aim to empower underrepresented communities and my peers, especially women, by leveraging current technology. My journey spans across AI app development, finance, economics, and social innovation.

I am a foodie who loves exploring new cuisines and spending time with my family!

## EDUCATION

### Lake Forest High School, Lake Forest, Illinois - 2022-2026

- GPA: 5.52/5.0
- Top 1% of Graduating Class in terms of Rigor of Coursework throughout High school & GPA

### Completed Coursework:

- Plane Solid Geometry Honors (8th Grade)
- Math Analysis Honors (9th)
- AP Statistics (9th)
- AP Calculus BC (10th)
- AP Chemistry (10th)
- AP Computer Science A (10th)
- AP Microeconomics (10th)
- AP Macroeconomics (10th)
- Accounting Honors (Dual Credit) (11th)
- Advanced Computer Science 2 Honors (11th)
- Multivariable Calculus + Advanced Topics in Math Honors (11th)
- Marketing (Dual Credit) (12th)
- Business Principles (Dual Credit) (12th)
- Advanced Computer Science 3 Honors (Dual Credit) (12th)
- AP Physics C: Mechanics (12th)
- AP Physics C: Electricity & Magnetism (12th)
- CPR & First Aid (Dual Credit) (11th, 12th)

## AWARDS

- 1st Place @ Northern Illinois Area Conference in Economics, FBLA Illinois (2026)
- 1st Place @ State in Accounting 1, FBLA Illinois (2025)
- 2nd Place @ State in Introduction to Financial Math, FBLA Illinois (2024)
- 1st Place @ State, Computer Science 4 Illinois Competition
- (International Award) Diplomacy Award at Northwestern University Model United Nations (2025)
- (National Award) United Nations - United States Association Ambassador Awardee
- (State Award) Honorable Delegate at Latin School of Chicago Model United Nations (2025)
- (State Award) Honorable Delegate at Francis Parker Model United Nations (2025)
- (State Award) Honorable Delegate at Saint Ignatius Model United Nations (2024)
- AP Scholar W/ Distinction (2024)
- High Honor Roll (2023-2025)
- Seal of Biliteracy in Spanish (2025)
- Inducted into Cum Laude Society

## SKILLS

- Adaptability
- Collaboration
- Compassion
- Creativity
- Effective Communication
- Financial Literacy
- Leadership
- Problem-solving
- Visionary Thinking

# EXTRACURRICULARS

## • IN-SCHOOL INVOLVEMENT

- **Lake Forest High School Career Connections, Board Member, 2025 - Present**
  - This Board aims to connect LFHS students with job-shadowing and internship opportunities in industries ranging from finance to healthcare.
  - Only student on the board; representing 1300 Lake Forest High School students.
  - Collaborated with Associate Principal, High School Administration, District 115 School Board, and Lake Forest Chamber Of Commerce to connect 50 students to internship & job shadowing opportunities.
- **FBLA Connect & Expand, Founder, 2024 - Present**
  - FBLA Connect & Expand aims to connect FBLA members to mentorship, job-shadowing, and internship opportunities in Business.
  - The success of this program prompted a revamp of the 'Career Pathway' Program at my school.
  - Connected 30 members to professional mentorship in their respective areas of interest.
  - Connected 13 members to job shadowing/internship opportunities.
  - Taught members business & financial concepts.
- **Future Business Leaders of America (FBLA), President, 2022 - Present**
  - Raised \$1200 which allowed students to participate in State Competition free of cost, also covered part of cost for students attending National Competition.
  - Increased Club Membership by 500%.
  - Helped 15 members prepare for their state exams, of which 4 qualified for the National Leadership Conference by winning Top 5 at State in their respective events.
- **Principal Advisory Council, Co-President, 2022 - Present**
  - Only student to be on the council for all four years.
  - Individually selected by principal as 1 of 2 students my freshman year (350-student class).
  - Working with District 115 school board to subsidize the cost of AP Exams for students.
  - Implemented Activity Bus system that increased extracurricular participation in my school by 100%.
  - Negotiating with Quest Food, our cafeteria supplier, to bring healthier options into the cafeteria.
- **Lake Forest High School Model United Nations (LFMUN) Conference, Secretariat General, 2025-2026**
  - Secretariat General of First LFHS Model United Nations Conference, with over 100+ middle school students across Lake County attending.
  - Overseeing 25 staff members and 5 committees.
  - Coordinating logistics, scheduling, and committee topics.
  - Fostering an engaging and educational MUN experience.

- **Lake Forest High School Model United Nations Team, Secretariat, 2022 - Present**
  - Represent the Delegation of the United Kingdom & Manage the Europe Bloc (20 members) during weekly meetings.
  - Train and mentor 30 delegates for state and international-level conferences, help delegates develop public-speaking and leadership skills to be successful in committees of 90+ delegates.
- **Peer Tutor, 2022 - Present**
  - Tutor native Spanish speakers/English as a Second Language students in Algebra 1, Algebra 2, Pre-Calculus, Calculus, and Chemistry.
  - Peer Tutored over 20 students.

## • OUT-OF-SCHOOL INVOLVEMENT & PROJECTS

- **STEMpowerHer, Chief Research Officer & Hackathon Founder, 2024-Present**
  - Empowered 5,000+ underrepresented minority girls across 50+ countries by creating coding workshops teaching Python and Java, and establishing International STEM Journal receiving 40+ submissions from 15+ countries
  - Founded a hackathon series with 200+ participants per event; secured five corporate sponsors (CodeCrafters, Interview Buddy, CleanShot, UniBee, Gen.xyz), contributing 9k in prize value.
  - Recruited 14 professional judges from Meta (ML Engineer), Amazon (Software Engineer), Pinterest (Staff ML Engineer), Walmart (Senior SWE), Wayfair (Engineering Leader), Oracle, Johnson & Johnson, Paramount, American Airlines
  - Designed week-long virtual hackathon with 5 competition tracks (AI for Good, Climate & Agriculture, Women's Safety, HealthTech, EdTech), professional judging rubrics, and asynchronous global delivery via Devpost platform
  - Paired participants with software engineers at major tech companies to mentor them through building social impact applications addressing healthcare access (Nigeria), education platforms (Pakistan), and agricultural solutions (rural India)
  - Built infrastructure including Discord server with 25 staff members, participant packet with judging criteria, and workshop resources enabling participants to teach each other across countries and time zones
- **OutsideConnections, National Outreach Manager, 2024-2025**
  - OutsideConnections is a national job platform dedicated to helping formerly incarcerated individuals reintegrate into society by connecting them with fair-chance employers.
  - Operating in all 50 U.S. states and over 120 cities, the platform has helped more than 10,000 reentrants secure employment.
  - Established partnerships with 5 organizations in California and Florida.
  - Connected organization to the California State Gov Reentrant Initiatives.
  - Left the Organization because they became for-profit.

- Advanced Economics for Leaders, Foundation for Teaching Economics @ UCLA, July - August 2024
  - Selected to participate in the Foundation for Teaching Economics (FTE) summer program focused on integrating advanced economic reasoning and real-world decision-making into classroom and policy contexts.
  - Explored key concepts in advanced microeconomics, advanced macroeconomics, and economic policy, applying analytical frameworks to contemporary global issues through simulations and discussions.

## **AI CAPSTONE PROJECTS**

### • **AI PROJECTS, 2024– Present**

- HerStory App - Financial Advocacy by Female Role Models for Today's Youth
  - HerStory connects youth and young women to digital representations of successful leaders in finance, making financial literacy education accessible through interactive conversations.
  - Employed Natural Language Processing, JavaScript, HTML, and CSS to program HerStory.
- BuzzTrade App - NLP+Finance, Stock Sentiment Predictor
  - BuzzTrade - NLP + Finance, Stock Sentiment Predictor, is an app that predicts stock movement based on social media posts and news related to a particular stock. It also predicts changes in investor sentiment based on tariff news input.
  - Developed using Machine Learning, Python, HTML, Java, and Jupyter Notebook.
- HealthyHabits App - Special Calendars to help Students with Learning Disabilities
  - Healthy Habits is an app designed for students who suffer from ADHD, Dyslexia, Dysgraphia, Dyscalculia, or Auditory Processing Disorder as well as student athletes.
  - It uses a smart algorithm based on exponential weighted averaging to schedule a student's homework and study sessions around other commitments, while accommodating any learning disabilities the student may have.
  - Incorporates Healthy Habits, like breaks, snacks, and showers.
  - Used Python, HTML, and CSS to program Healthy Habits.

## RESEARCH PROJECT

### **• RESEARCH, 2025– Present**

- Topic of Research: “AI Companions as Non-Judgmental Allies: Democratizing Financial & Mental Health Support for Underserved”
  - Researching how AI can be used to democratize access to financial and mental health support for underserved communities.
    - Researched applications of large language models (LLMs) to democratize access to financial guidance and mental health support for underserved populations.
    - Collected, filtered, and anonymized multi-domain dialogue datasets to ensure privacy-preserving model training.
    - Fine-tuned empathetic LLMs (e.g., Llama 3, GPT) on domain-specific data to enhance contextual understanding and emotional intelligence in AI responses.
    - Developed a context-aware conversational framework integrating emotion recognition, risk detection, and content filtering modules.
    - Implemented safety and factual guardrails to ensure responsible and bias-mitigated responses aligned with ethical AI standards.
    - Evaluating model performance using:
      - Accuracy & F1-score: measured correctness and balance of model predictions;
      - BLEU/ROUGE: assessed response fluency and coherence in dialogues;
      - MSE (Mean Squared Error): tracked sentiment prediction precision with additional focus on latency and real-time user experience for deployment readiness.
  - Researching under Mr. Odysseas Drosis (Cornell MS, PhD, Data Scientist @ HP).

## WORK EXPERIENCE

### **• INTERNSHIP AT JPMORGAN CHASE, 2025**

- Currently interning at Wealth Management Department at a community branch.
- Studying how equities, bonds, and funds drive portfolio growth, risk management, and wealth strategies to achieve client financial goals.
  - Conducted quantitative analyses of equities, fixed-income instruments, and mutual funds/ETFs, modeling portfolio performance using Monte Carlo simulations, modern portfolio theory (MPT), and efficient frontier optimization techniques.
  - Monitored market and macroeconomic indicators (interest rates, inflation, earnings data) to support sector rotation strategies and risk management decisions.
  - Used Morningstar to research and compare different investments based on performance, risk, and diversification.